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ABSTRACT

This courseware evaluation rates the "Microcomputer Applications in Vocational Education: Home Economics" program developed by the Illinois State Board of Education. (This series of programs--not contained in this document--includes interior decorating estimating, pounds away program, decision analysis, fiber care, clothing figure analysis, stain removal, consumer math, housing options, home loan analysis, personal budget, utilities, nutrition analysis, home owner's capital gain, measurement conversion, and recipe analysis.) Part A describes the program in terms of hardware requirements (Apple II, TRS 80 III, Pet Basic 3 Commodore), indicates its suitability for grades 11 through adult, and estimates time for use (15-20 minutes). Availability information includes cost ($11.00--Apple and TRS, $6.25--Pet) and contact address. Part B contains the evaluation criteria in eight categories; reviewer ratings appear as yes, somewhat, no, and not applicable, with explanatory comments. Part C summarizes the evaluation in terms of strengths (performs calculations related to home economics subjects and provides helpful information for homemakers) and weaknesses (no printed documentation and difficulty in reading the screen). A summary section shows that this courseware received overall ratings of "somewhat" in the categories of subject matter, technical presentation, student interaction, and documentation. (The program interaction, student evaluation, and work behaviors criteria were not applicable.) This courseware is recommended with reservations, due to difficulty in obtaining desired results. (SK)

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ED268235

MICROCOMPUTER

APPLICATIONS IN VOCATIONAL EDUCATION:

HOME ECONOMICS

COURSEWARE EVALUATION

FOR

VOCATIONAL AND TECHNICAL EDUCATION

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The Courseware Evaluation: Form and Guide used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.

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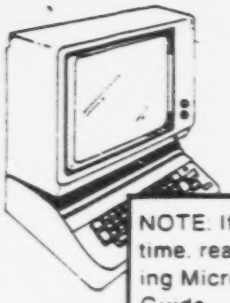

COURSEWARE EVALUATION FORM

NOTE: If you are using this form for the first time, read the instructions in the accompanying Microcomputer Courseware Evaluation Guide.

Evaluator Ruth Sarle, Sue Saravelle, Barbara Reed

Position State Home Economics Supervisor, Secondary Home Economics Supervisor, Retired Home Economics Supervisor

Date August 22, 1985

Part A: Courseware Description

In the following sections, record descriptive information about the courseware that you are evaluating.

I. IDENTIFICATION

Program Title Microcomputer Applications in Vocational Education: Home Economics Date 1982

Series Title

Vocational Area(s) Home Economics

Subject Area(s) Consumer and Homemaking

Topic(s) Nutrition, Budgeting, Fiber Care, Math, Interior Decorating, Housing, Decision Making.

Developing Agency Illinois State Board of Education

Street or P.O. Box 100 N. First

City Springfield State IL Zip 62777 Phone( )

Author(s)

Programmer(s)

II. HARDWARE REQUIREMENTS

Microcomputer* Apple II Plus, IIe, IIc
(brand/model)

K Memory Required 48 K
(number)

Medium of Transfer (include number of each):

- __ Tape cassette
- __ ROM cartridge
- X 5¼" Flexible disk
- __ 8" Flexible disk
- __ Other _____ (specify)

Programming Language _____ DOS Specifications _____

Other Specifications

Peripherals Needed (check all that apply):

- __ Color monitor
- X One disk drive
- __ Two disk drives
- __ Plotter
- __ Game paddle(s)
- __ Joystick(s)
- __ Modem
- __ Mouse
- __ Printer
- __ Graphics tablet
- __ Light pen
- __ Voice/sound instrument
- __ Clock
- __ Video disk
- __ Touch screen
- __ Ten-key number pad
- __ Other _____ (specify)

*NOTE: Provide the above information for any additional hardware on which this program can be used.

TRS 80 III, Pet Basic 3 Commodore 4040 Disk Drive

Part A: Courseware Description

III. PROGRAM FEATURES (check all that apply):

__ Network version provided
__ Multiple copies required
__ Program can be modified
__ Program protected
__ Data disk needed
__ Field-test data available

IV. INSTRUCTIONAL SETTING

Program mode (check all that apply):

X Application
__ Drill and practice
__ Educational gaming
__ Simulation
__ Tutorial
__ Other _____ (specify)

Student Target Population (check all that apply):

X Regular
__ Disadvantaged
__ Handicapped
__ Limited English
__ Bilingual
X Gifted

Grade Level (check all that apply):

__ K-6
__ 7-8
__ 9-10
X 11-12
X 13-14
X Adult
__ Higher Education

Instructional Grouping (check all that apply):

X Individual
X Small group (up to 4)
__ Large group (4 or more)
__ competitive interaction
X cooperative interaction

Prerequisite Student Skills (specify) _____

Accompanying Materials (specify types):

Documentation Within Program
Student support materials _____
Teacher support materials _____
Correlated materials _____
Estimated Time for Use Each section 15-20 minutes

V. AVAILABILITY

__ Free _____ (copies)
__ Loan _____ (time)
__ Duplication (requestor supplies disk)
X Sale $ 11.00 Apple and TRS
6.25 Pet Commodore
__ Rent $ _____ _____ (time)

Copyright Restrictions (explain) _____
Back-up Policy (explain) _____
Preview Policy (explain) _____
Update Policy (explain) _____

Contact Curriculum Publications Clearinghouse, Western Illinois University
Street or P.O. Box 46 Horrabin Hall
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Part B: Courseware Evaluation Criteria

Indicate the applicability of each section to the courseware being evaluated by checking either "___ A" (applicable) or "___ N/A" (not applicable). If a section is not applicable, proceed to the next section. If a section is applicable, check the column that indicates how well the courseware meets each criterion. Include any comments.

	YES	SOME-WHAT	NO	N/A	COMMENTS
I. SUBJECT MATTER X A ___ N/A					
1. Subject matter has educational value.	X				
2. Student objectives are stated.			X		
3. Subject matter is accurate.	X				
4. Subject matter is logically presented.	X				
5. Subject matter is free of race, ethnic, sex, and other stereotypes.	X				
6. Subject matter is on the level of the students.	X				Advanced
7. Information and skills presented are comparable to those used in the home, business, or industry.	X				
8. Subject matter motivates students to learn.		X			
9. Subject matter is reviewed and summarized.			X		
10. Program utilizes the unique capabilities of the microcomputer to present the subject matter.		X			Some sections
II. TECHNICAL PRESENTATION X A ___ N/A					
1. Program is free of technical problems.	X				
2. Presentation rate is adequate to maintain interest.	X				
3. Information on the screen is easy to read.			X		
4. Program is free of spelling and grammatical errors.	X				
5. Program instructions are easy to follow.		X			
6. Color increases the instructional value of the program.				X	
7. Audio increases the instructional value of the program.				X	
8. Graphics increase the instructional value of the program.				X	

Part B: Courseware Evaluation Criteria

	YES	SOME-WHAT	NO	N/A	COMMENTS
III. STUDENT INTERACTION X A ___ N/A					
1. Students can use the program with minimal assistance.		X			Some prerequisite knowledge
2. Students are actively involved in the program.	X				
3. Students control the pace of the program.	X				
4. Students can access the program "menu(s)" to change activities.	X				
5. Students are permitted to change answers.		X			
6. Methods of responding correspond to the level of the program.	X				
7. Students' errors of entry are processed so that the program continues to run.	X				
8. Students can access available "help" and "hint" options at any time.			X		
9. Students can enter or exit the program as desired.		X			When specified
10. Students control the sequence of the program.		X			Can select the menu
IV. PROGRAM INTERACTION X A ___ N/A					
1. Feedback is immediate.	X				
2. Cues and prompts are provided to assist students in answering correctly.			X		
3. Feedback reinforces the correct responses.		X			
4. Feedback is nonthreatening.	X				
5. Program helps students understand wrong answers.			X		
6. Program gives the correct answer after a reasonable number of tries.				X	
7. Positive reinforcement is varied.	X				Depending on program
8. Program has the ability to branch/loop depending upon students' performance.	X				
9. Feedback is on the level of the student.	X				
V. STUDENT EVALUATION ___ A X N/A					
1. Evaluation provides a means for measuring attainment of objectives.					
2. Program reports which items were missed and which were correct.					

	YES	SOME-WHAT	NO	N/A	COMMENTS
V. STUDENT EVALUATION—*Continued*					
3. Individual student performance results are available to the teacher.					
4. Class performance results are available to the teacher.					
5. Program provides for printed copies of evaluations.					
6. Test item formats are suited to the material being tested.					
7. Test items are clearly stated.					
8. Test item bank is provided.					
VI. DOCUMENTATION X A ___ N/A					
1. Documentation is easy to understand.		X			On Disk
2. Documentation is accurate.	X				
3. Student objectives are stated.				X	
4. Underlying concepts are outlined.			X		
5. Skills to be developed are specified.		X			
6. Procedures for integrating the program into the curriculum are provided.			X		
7. Follow-up activities are suggested.			X		
8. Documentation explains the intended use of support materials.				X	No Support Materials
9. Sufficient information is provided to operate the program.	X				
VII. WORK BEHAVIORS ___ A X N/A					
1. Program helps students identify their vocational skills.					
2. Program promotes pride in work.					
3. Program promotes productivity.					
4. Program encourages good work habits.					
5. Problem solving is encouraged.					
6. Program promotes good human relations skills.					
7. Program provides an opportunity for work satisfaction and self-fulfillment.					
8. Program encourages creativity.					

Part B: Courseware Evaluation Criteria

	YES	SOME-WHAT	NO	N/A	COMMENTS
VIII. APPLICATION PROGRAMS X A ___ N/A (to be completed for application programs only)					
1. Program is adaptable to the needs of the student.			X		
2. Commands are easily remembered.	X				
3. Information is easily manipulated.			X		
4. Corrections are easy to make.			X		
5. Program includes all necessary variables.		X			
6. Program performs reliably.		X			
7. Program efficiently achieves its intended purpose.		X			
8. Trial data are supplied for learning to run the program.			X		
9. Program provides for use of printer when hard copy of information is advantageous.			X		
10. Program moves from operation to operation efficiently.				X	
11. Program is compatible with other application programs.				X	
12. Program has a supplementary tutorial program available.			X		

Part C: Courseware Evaluation Summary

1. SUMMARY COMMENTS

Identify strengths of the courseware:

1- Performs calculations related to home economics subjects.

2- Helpful info for homemakers - utilization of computer in home.

Identify weaknesses of the courseware:

1- Difficult to read screen

2- No printed documentation

3- Technical problem with fiber care portion

Describe uses of the courseware in an instructional setting:

For use in class for utilizing the computer, or in the home, cooperative extension, workshops.

2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the appropriate column: if not applicable, check N/A.

	YES	SOME-WHAT	NO	N/A
I. SUBJECT MATTER: Content has educational value.		X		
II. TECHNICAL PRESENTATION: Program is free of malfunctions.		X		
III. STUDENT INTERACTION: Students are actively involved with the program.		X		
IV. PROGRAM INTERACTION: Feedback is effectively employed.				X
V. STUDENT EVALUATION: Evaluation adequately measures student progress.				X
VI. DOCUMENTATION: Documentation is sufficient to run the program.		X		
VII. WORK BEHAVIORS: Program assists students in developing positive work attitudes and skills.				X
VIII. APPLICATION PROGRAMS: Program performs the task for which it is intended.		X		

3. FINAL RECOMMENDATION

Check your recommendation for the courseware and explain your reasons below.

___ Highly recommend
___ Recommend
X Recommend with reservations
___ Do not recommend

Difficult to obtain desired results

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Microcomputer Courseware Evaluation Guide: Form and Guide
for Vocational and Technical Education

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